

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	22.56

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/2/2011 - 5/5/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

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DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River						Right	22.56	05/02/2011 05/05/2011	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.01	22.55	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.348683 ° -120.958683 °	37.166800 ° -120.749588 °	4
2	0.01	22.55	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.348682 ° -120.958688 °	37.166802 ° -120.749590 °	3
3	0.16	0.16	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees over roadway to at least 12 feet above ground level.	37.347152 ° -120.960560 °	37.347152 ° -120.960560 °	7
4	0.24	0.27	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.346152 ° -120.961402 °	37.345822 ° -120.961638 °	1
5	3.72	3.74	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.313892 ° -120.926507 °	37.313598 ° -120.926607 °	2 Y
6	4.00	4.08	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	37.310837 ° -120.926182 °	37.310003 ° -120.925313 °	5 Y
7	4.20	4.20	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.308540 ° -120.924003 °	37.308540 ° -120.924003 °	6
8	19.33	19.33	Earthen Levee	Encroachments	CR	M	Pipe Inspector Comments: Farmer installed a temp pipe across levee crown and landside and waterside slope. Ramp is not according to standards.	37.200923 ° -120.756987 °	37.200923 ° -120.756987 °	8 Y
9	22.09	22.56	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	37.169962 ° -120.754240 °	37.166983 ° -120.750127 °	22 Y

*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

A : Acceptable
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PO : Partially Obstructing
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N : Not Inspected/Rated
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	05/02/2011 05/05/2011	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	3.72
End Levee Mile	3.74
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Typical view of squirrel burrows in this section of levee

richard_s_20110215_074.jpg



Levee Mile Report Line	5
Start Levee Mile	3.72
End Levee Mile	3.74
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at typical view of squirrel burrows on landside slope in this section of levee.

richard_s_20110215_075.jpg



Levee Mile Report Line	6
Start Levee Mile	4.00
End Levee Mile	4.08
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at irrigation ditch along landside toe.

richard_s_20110215_076.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	05/02/2011 05/05/2011	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	4.00
End Levee Mile	4.08
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at irrigation ditch along landside toe.

richard_s_20110215_077.jpg



Levee Mile Report Line	8
Start Levee Mile	19.33
End Levee Mile	19.33
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking north at unauthorized pipe across crown of levee with a ramp.

richard_s_20110510_533.jpg



Levee Mile Report Line	8
Start Levee Mile	19.33
End Levee Mile	19.33
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking northwest at pipe on waterside slope.

richard_s_20110510_534.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	05/02/2011 05/05/2011	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	19.33
End Levee Mile	19.33
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking northeast at pipe on landside slope.

richard_s_20110510_535.jpg



Levee Mile Report Line	9
Start Levee Mile	22.09
End Levee Mile	22.56
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking at landside ditch at levee toe.

richard_s_20110215_078.jpg



Levee Mile Report Line	9
Start Levee Mile	22.09
End Levee Mile	22.56
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at ditch along landside toe.

richard_s_20110215_079.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 02A San Joaquin River			Left	7.87
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/5/2011 - 5/5/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River						Left	7.87	05/05/2011 05/05/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	5.92	13.77	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.254900 ° -120.825855 °	37.172420 ° -120.761173 °	4 Y
2	5.92	13.77	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.254893 ° -120.825852 °	37.172418 ° -120.761172 °	2

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	05/05/2011 05/05/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	5.92
End Levee Mile	13.77
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee

richard_s_20110524_001.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 02B San Joaquin River			Left	5.92

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/5/2011 - 5/5/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02B San Joaquin River				Left	5.92	05/05/2011 05/05/2011	Richard Willoughby	

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.77	0.77	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact.	37.286833 ° -120.874103 °	37.286118 ° -120.868097 °	5
2	0.77	0.77	Earthen Levee	Erosion / Bank Caving	WS	U	Note and monitor erosion site. Inspector Comments: Old erosion site not schedule to be repair. Erosion has eroded to landside shoulder. Not able to pass due to erosion.	37.286835 ° -120.874105 °	37.286835 ° -120.874105 °	6 Y
3	2.33	2.33	Earthen Levee	Encroachments	LS	CO	Ramp Inspector Comments: Wildlife Service need to apply for permit for ramp.	37.291408 ° -120.850893 °	37.291408 ° -120.850893 °	4 Y
4	3.28	3.28	Interior Drainage & Piping Systems	Flap Gates	LS	M	Inspector Comments: Leaking flapgate.	37.279645 ° -120.844783 °	37.279645 ° -120.844783 °	3
5	7.87	13.79	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.286835 ° -120.874105 °	37.255097 ° -120.826143 °	1
6	7.87	13.79	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.286835 ° -120.874105 °	37.255097 ° -120.826143 °	2

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	05/05/2011 05/05/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.77
End Levee Mile	0.77
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking north erosion site.

richard_s_20110510_538.jpg



Levee Mile Report Line	2
Start Levee Mile	0.77
End Levee Mile	0.77
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking north at erosion extending to landside shoulder.

richard_s_20110510_539.jpg



Levee Mile Report Line	3
Start Levee Mile	2.33
End Levee Mile	2.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at ramp on waterside slope.

richard_s_20110510_540.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 03 San Joaquin River			Right	2.16
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/4/2011 - 5/4/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River						Right	2.16	05/04/2011 05/04/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	2.16	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.111997 ° -120.587339 °	37.088327 ° -120.566951 °	1
2	0.00	2.16	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.111997 ° -120.587339 °	37.088327 ° -120.566951 °	2 Y

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.16	05/04/2011 05/04/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	2.16
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Typical view of levee waterside and landside.

richard_s_20110510_536.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 04 San Joaquin River			Left	1.58
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/4/2011 - 5/4/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

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Signature of LMA Representative

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**Flood Control Project Maintenance
Levee Inspections**

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Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River						Left	1.58	05/04/2011 05/04/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	1.55	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.112521 ° -120.583028 °	37.095442 ° -120.577961 °	1
2	0.00	1.55	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.112521 ° -120.589028 °	37.095442 ° -120.577961 °	2 Y

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Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.58	05/04/2011 05/04/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	1.55
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard_s_20110601_556.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 05 East Side Bypass			Right	34.75
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/2/2011 - 5/5/2011			
DWR Inspector	Richard Willoughby			
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Sacramento, CA 95821-9000

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass						Right	34.75	05/02/2011 05/05/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	2.81	2.81	Earthen Levee	Trim / Thin Trees	LS	W	Trim trees to at least five feet above ground level.	37.256803 ° -120.785407 °	37.256803 ° -120.785407 °	3
2	6.50	6.50	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.230497 ° -120.727263 °	37.230497 ° -120.727263 °	15
3	6.58	6.58	Earthen Levee	Repair Gates	CR	M		37.229807 ° -120.726538 °	37.229807 ° -120.726538 °	17 Y
4	8.06	8.06	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.213600 ° -120.706630 °	37.213600 ° -120.706630 °	4
5	8.83	8.83	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.205778 ° -120.696843 °	37.205778 ° -120.696843 °	5
6	25.49	25.54	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.047630 ° -120.488530 °	37.047042 ° -120.488092 °	9
7	29.80	29.80	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.017540 ° -120.431955 °	37.017540 ° -120.431955 °	16

*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	05/02/2011 05/05/2011	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	6.58
End Levee Mile	6.58
Location	Crown
Category	Earthen Levee
Item	Repair Gates

Looking south at damage gate.

richard_s_20110215_083.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 06 East Side Bypass			Left	36.38

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2011 - 5/5/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

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DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass						Left	36.38	05/03/2011 05/05/2011	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	36.37	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.275045 ° -120.825952 °	36.974198 ° -120.363352 °	1 Y
2	0.00	36.37	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.275045 ° -120.825948 °	36.974197 ° -120.363350 °	2
3	4.67	4.67	Earthen Levee	Animal Control	CR	W	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.244012 ° -120.761372 °	37.244012 ° -120.761372 °	16 Y
4	6.12	6.12	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.235777 ° -120.738598 °	37.235777 ° -120.738598 °	22
5	6.15	6.15	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.235623 ° -120.738017 °	37.235623 ° -120.738017 °	21
6	14.91	17.23	Earthen Levee	Crown Surface / Depressions / Rutting	LS	W	Keep the crown roadway free of vegetation.	37.163025 ° -120.630648 °	37.141161 ° -120.599867 °	4
7	22.90	22.96	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.088663 ° -120.538193 °	37.087968 ° -120.537485 °	8
8	28.62	28.62	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.030102 ° -120.469122 °	37.030102 ° -120.469122 °	19

*** Location**

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CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	05/03/2011 05/05/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	36.37
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard_s_20110601_557.jpg



Levee Mile Report Line	3
Start Levee Mile	4.67
End Levee Mile	4.67
Location	Crown
Category	Earthen Levee
Item	Animal Control

Looking at squirrel hole on crown of levee.

richard_s_20110215_084.jpg



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WS : Waterside
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 07 Bear Creek Bypass			Right	3.62

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/2/2011 - 5/2/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	05/02/2011 05/02/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.27	3.61	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.257210 ° -120.768075 °	37.254762 ° -120.719727 °	2 Y
2	0.27	3.61	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.257210 ° -120.768067 °	37.254762 ° -120.719738 °	1

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	05/02/2011 05/02/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.27
End Levee Mile	3.61
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Typical view of levee

richard_s_20110510_537.jpg



*** Location**

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WS : Waterside
CR : Crown

**** Rating**

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M : Minimally Acceptable CO : Completely Obstructing W : Watch/Monitor
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 08 Bear Creek Bypass			Left	3.63

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/2/2011 - 5/2/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	05/02/2011 05/02/2011	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	3.62	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.253097 ° -120.768472 °	37.254012 ° -120.718848 °	5 Y
2	0.00	3.62	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.253098 ° -120.768470 °	37.254010 ° -120.718847 °	4
3	1.42	1.42	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.263077 ° -120.751528 °	37.263077 ° -120.751528 °	2
4	1.61	1.61	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.261842 ° -120.748510 °	37.261842 ° -120.748510 °	1
5	2.12	2.12	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.257688 ° -120.741573 °	37.257688 ° -120.741573 °	7
6	3.40	3.54	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.253052 ° -120.722647 °	37.253600 ° -120.720198 °	3

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	05/02/2011 05/02/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	3.62
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee

richard_s_20110525_002.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
M : Minimally Acceptable CO : Completely Obstructing W : Watch/Monitor
U : Unacceptable N : Not Inspected/Rated

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 09 Owens Creek Bypass			Right	0.88

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/4/2011 - 5/4/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass						Right	0.88	05/04/2011 05/04/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.88	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	1
								°	°	
2	0.00	0.88	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	2
								°	°	Y

*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.88	05/04/2011 05/04/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.88
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard_s_20110601_548.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

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M : Minimally Acceptable CO : Completely Obstructing W : Watch/Monitor
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 10 Owens Creek Bypass			Left	0.82

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/4/2011 - 5/4/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.82	05/04/2011 05/04/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.82	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	1
								°	°	
2	0.00	0.82	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	2
								°	°	Y

*** Location**

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CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.82	05/04/2011 05/04/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.82
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard_s_20110601_549.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 11 Mariposa Bypass			Right	3.31

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/5/2011 - 5/5/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass						Right	3.31	05/05/2011 05/05/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	3.31	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.202707 ° -120.754847 °	37.202282 ° -120.754850 °	1
2	0.00	3.31	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.202710 ° -120.754845 °	37.202282 ° -120.695167 °	2 Y

*** Location**

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WS : Waterside
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	05/05/2011 05/05/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	3.31
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard_s_20110601_550.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
M : Minimally Acceptable CO : Completely Obstructing W : Watch/Monitor
U : Unacceptable N : Not Inspected/Rated

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 12 Mariposa Bypass			Left	3.33
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/5/2011 - 5/5/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

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DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass						Left	3.33	05/05/2011 05/05/2011	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	3.32	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.200943 ° -120.755162 °	37.200935 ° -120.694930 °	3 Y
2	0.00	3.32	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.200942 ° -120.755152 °	37.200937 ° -120.694930 °	4
3	2.33	2.33	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.200907 ° -120.712978 °	37.200907 ° -120.712978 °	1
4	2.33	2.33	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.200878 ° -120.712965 °	37.200878 ° -120.712965 °	2

*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	05/05/2011 05/05/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	3.32
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard_s_20110601_551.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 13 Ash Slough			Right	1.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2011 - 5/3/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough						Right	1.28	05/03/2011 05/03/2011	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	1.28	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	1
								°	°	
2	0.00	1.28	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	2
								°	°	Y
3	0.14	0.14	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.035697 ° -120.441197 °	37.035697 ° -120.441197 °	3

*** Location**

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CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.28	05/03/2011 05/03/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	1.28
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard_s_20110601_552.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

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U : Unacceptable N : Not Inspected/Rated

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 14 Ash Slough			Left	1.28

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2011 - 5/3/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough						Left	1.28	05/03/2011 05/03/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	1.28	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	1
								°	°	
2	0.00	1.28	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	2
								°	°	Y

*** Location**

LS : Landside
WS : Waterside
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	05/03/2011 05/03/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	1.28
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard_s_20110601_553.jpg



*** Location**

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WS : Waterside
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 15 Berenda Slough			Right	2.03

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2011 - 5/3/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

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Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough						Right	2.03	05/03/2011 05/03/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	2.03	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	1
								°	°	
2	0.00	2.03	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	2
								°	°	Y

*** Location**

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CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	05/03/2011 05/03/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	2.03
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard_s_20110601_554.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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M : Minimally Acceptable CO : Completely Obstructing W : Watch/Monitor
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 16 Berenda Slough			Left	1.98
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2011 - 5/3/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough						Left	1.98	05/03/2011 05/03/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	1.98	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	1
								°	°	
2	0.00	1.98	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	2
								°	°	Y

*** Location**

LS : Landside
WS : Waterside
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.98	05/03/2011 05/03/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	1.98
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard_s_20110601_555.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 17 Chowchilla Canal Bypass			Right	16.09
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2011 - 5/3/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 17 Chowchilla Canal Bypass						Right	16.09	05/03/2011 05/03/2011	Richard Willoughby	
LMIR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	16.09	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	1
								°	°	Y
2	0.00	16.09	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	2
								°	°	
3	6.51	6.60	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	36.898124 ° -120.326714 °	36.896943 ° -120.326133 °	4
4	7.27	7.39	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	36.887869 ° -120.321697 °	36.886341 ° -120.320940 °	5
5	8.11	8.28	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	36.876132 ° -120.317926 °	36.873749 ° -120.317465 °	6

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	05/03/2011 05/03/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	16.09
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking downstream at typical view of levee.

richard_s_20110531_001.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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M : Minimally Acceptable CO : Completely Obstructing W : Watch/Monitor
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 18 Chowchilla Canal Bypass			Left	15.33

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2011 - 5/3/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

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X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass						Left	15.33	05/03/2011 05/03/2011	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	15.24	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	36.974118 ° -120.363225 °	36.774547 ° -120.285895 °	1 Y
2	0.00	15.24	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	36.974132 ° -120.363232 °	36.774547 ° -120.285895 °	2
3	2.25	2.25	Earthen Levee	Seepage / Sandboils	LS	A	Inspector Comments: Seepage found on 4-12-11 by district.	36.945595 ° -120.347117 °	36.945595 ° -120.347117 °	3

*** Location**

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WS : Waterside
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.33	05/03/2011 05/03/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	15.24
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking upstream of typical view of levee.

richard_s_20110601_001.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
M : Minimally Acceptable CO : Completely Obstructing W : Watch/Monitor
U : Unacceptable N : Not Inspected/Rated

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 22A East Side Canal			Left	5.50

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/2/2011 - 5/2/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

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3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector		
Unit No. 22A East Side Canal				Left	5.50	05/02/2011 05/02/2011	Richard Willoughby		

LMIR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	5.50	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	5
								°	°	Y
2	0.00	5.50	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	6
								°	°	
3	0.10	0.10	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site. Inspector Comments: Erosion located next to screw gate.	37.206985 ° -120.696225 °	37.206985 ° -120.696225 °	7 Y
4	0.68	0.88	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.215360 ° -120.698078 °	37.218128 ° -120.697457 °	8
5	3.44	3.44	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	37.251372 ° -120.715320 °	37.251372 ° -120.715320 °	2
6	3.65	3.65	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: There're several slope stability along this channel cause by animal foot traffic that need to be monitored.	37.253465 ° -120.717952 °	37.253465 ° -120.717952 °	1 Y
7	3.85	3.85	Channels	Encroachments	WS	M	Inspector Comments: Stevenson Irrigation District constructed a concrete weir across channel without a permit. Still waiting for permit.	37.255568 ° -120.720551 °	37.255568 ° -120.720551 °	4 Y
8	4.68	4.68	Channels	Encroachments	WS	M	Inspector Comments: Old wooden bridge in channel should be removed.	37.264250 ° -120.731280 °	37.264250 ° -120.731280 °	3 Y

*** Location**

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WS : Waterside
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	05/02/2011 05/02/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	5.50
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard_s_20110606_096.jpg



Levee Mile Report Line	3
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking downstream at erosion around screw gate can on waterside slope.

richard_s_20110215_093.jpg



Levee Mile Report Line	3
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking upstream at erosion around screw gate can.

richard_s_20110215_094.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	05/02/2011 05/02/2011	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking at erosion near and around screw gate can.

richard_s_20110215_095.jpg



Levee Mile Report Line	6
Start Levee Mile	3.65
End Levee Mile	3.65
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking upstream at one of several slope stability along canal.

richard_s_20110215_085.jpg



Levee Mile Report Line	6
Start Levee Mile	3.65
End Levee Mile	3.65
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking at one of several slope stability along canal.

richard_s_20110215_086.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	05/02/2011 05/02/2011	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Water Side
Category	Channels
Item	Encroachments

Looking northeast at weir in channel.

richard_s_20110215_090.jpg



Levee Mile Report Line	7
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Water Side
Category	Channels
Item	Encroachments

Looking at upstream side of weir.

richard_s_20110215_091.jpg



Levee Mile Report Line	7
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Water Side
Category	Channels
Item	Encroachments

Looking north at weir.

richard_s_20110215_092.jpg



*** Location**

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WS : Waterside
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	05/02/2011 05/02/2011	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Channels
Item	Encroachments

Looking downstream at dilapidated bridge in channel.

richard_s_20110215_087.jpg



Levee Mile Report Line	8
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Channels
Item	Encroachments

Looking southeast at dilapidated bridge in channel.

richard_s_20110215_088.jpg



Levee Mile Report Line	8
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Channels
Item	Encroachments

Looking northeast at dilapidated bridge in channel.

richard_s_20110215_089.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 23 San Joaquin River			Right	10.25
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2011 - 5/3/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

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X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River							Right	10.25	05/03/2011 05/03/2011	Richard Willoughby
LMR No.	Levee Mile		Category	Item	* Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.01	10.25	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	36.774353 ° -120.283698 °	36.814792 ° -120.168847 °	2 Y
2	0.01	10.25	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	36.774353 ° -120.283695 °	36.814788 ° -120.168847 °	1
3	0.28	0.28	Earthen Levee	Seepage / Sandboils	LS	A	Inspector Comments: Seepage not running at time of inspection.	36.772268 ° -120.279598 °	36.772268 ° -120.279598 °	4
4	0.52	0.52	Earthen Levee	Seepage / Sandboils	LS	A	Inspector Comments: Boil found by district, boil running clear. But not running at time of inspection.	36.773462 ° -120.275933 °	36.773462 ° -120.275933 °	6
5	1.90	1.90	Earthen Levee	Seepage / Sandboils	LS	A	Inspector Comments: Boil found on 4-6-11 by district, boil running clear	36.772847 ° -120.253517 °	36.772847 ° -120.253517 °	8
6	3.30	3.30	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	36.774403 ° -120.234705 °	36.774403 ° -120.234705 °	3
7	3.45	3.45	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	36.776537 ° -120.234573 °	36.776537 ° -120.234573 °	9
8	4.14	4.14	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	36.784212 ° -120.228815 °	36.784212 ° -120.228815 °	10
9	4.46	4.46	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	36.784523 ° -120.223292 °	36.784523 ° -120.223292 °	11
10	5.23	5.23	Earthen Levee	Encroachments	WS	U	Material Inspector Comments: Sand pile in levee channel over three feet high. Pile is to close to levee.	36.791400 ° -120.214222 °	36.791400 ° -120.214222 °	7 Y
11	5.68	5.72	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	36.792012 ° -120.206270 °	36.791857 ° -120.205685 °	5

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	05/03/2011 05/03/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	10.25
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard_s_20110606_099.jpg



Levee Mile Report Line	10
Start Levee Mile	5.23
End Levee Mile	5.23
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking upstream (south) at sand pile within 100' of waterside levee toe.

richard_s_20110215_096.jpg



Levee Mile Report Line	10
Start Levee Mile	5.23
End Levee Mile	5.23
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at sand pile within 100' of waterside levee toe.

richard_s_20110215_097.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	05/03/2011 05/03/2011	Richard Willoughby

Levee Mile Report Line	10
Start Levee Mile	5.23
End Levee Mile	5.23
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking downstream (north) at sandpile within 100' of waterside levee toe.

richard_s_20110215_098.jpg



*** Location**

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WS : Waterside
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 24 San Joaquin River			Left	8.34
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2011 - 5/3/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

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X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River						Left	8.34	05/03/2011 05/03/2011	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.01	8.34	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	36.773042 ° -120.285207 °	36.778208 ° -120.184250 °	2
2	0.01	8.34	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	36.773038 ° -120.285203 °	36.778210 ° -120.184255 °	3
3	1.75	1.75	Earthen Levee	Erosion / Bank Caving	LS	U	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Large sink hole 15-18' from landside toe. See field investigation report for more detail.	36.771117 ° -120.266202 °	36.771117 ° -120.266202 °	1 Y
4	3.46	3.46	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	36.769345 ° -120.238370 °	36.769345 ° -120.238370 °	7

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.34	05/03/2011 05/03/2011	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking west at sink hole along farmer road and fence line.

richard_s_20110524_002.jpg



Levee Mile Report Line	3
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking north at sink hole along fence line and farmer road.

richard_s_20110531_003.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

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U : Unacceptable
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Lower San Joaquin Levee District

Waterway			Bank	Unit Miles
Unit No. 25 Salt Slough			Right	2.47
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/5/2011 - 5/5/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough						Right	2.47	05/05/2011 05/05/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	2.47	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	2
								°	°	
2	0.00	2.47	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	°	°	3
								°	°	Y
3	0.27	1.77	Earthen Levee	Crown Surface / Depressions / Rutting	CR	W	Keep the crown roadway free of vegetation.	37.292165 ° -120.880693 °	37.271175 ° -120.866618 °	1

*** Location**

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WS : Waterside
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.47	05/05/2011 05/05/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	2.47
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard_s_20110601_546.jpg



*** Location**

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WS : Waterside
CR : Crown

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